

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/063828 A1

(51) International Patent Classification⁷: **C08F 10/00**, 210/16, C07F 17/02, 7/08, C07D 495/04 // (C07D 495/04, 333:00, 333:00)

(74) Agent: SACCO, Marco; Basell Poliolefine Italia S.p.A., Intellectual Property, P.le G.Donegani 12, I-44100 Ferrara (IT).

(21) International Application Number:
PCT/EP2004/012984

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:
16 November 2004 (16.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03104913.3 22 December 2003 (22.12.2003) EP
60/532,331 22 December 2003 (22.12.2003) US

(71) Applicant (*for all designated States except US*): BASELL POLYOLEFINE GMBH [DE/DE]; Brühler Strasse 60, 50389 Wesseling (DE).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): NIFANT'EV, Ilya, E. [RU/RU]; 26 Bakinskikh Komissarov, Str.12/3, apt. 60, Moscow, 117526 (RU). IVCHENKO, Pavel, V. [RU/RU]; 2nd Mosfilmovskiy per., 24, apt.5, Moscow, 119285 (RU). TAJDAKOV, Ilya, V. [RU/RU]; Marii Ulianovi Str. 9-2. apt. 8, Moscow, 119231 (RU). RESCONI, Luigi [IT/IT]; Via Palestro, 101, I-44100 Ferrara (IT).

Declaration under Rule 4.17:

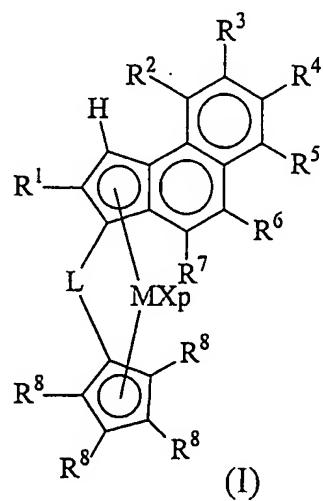
— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

[Continued on next page]

(54) Title: METALLOCENE COMPOUNDS



(57) Abstract: A metallocene compound of formula (I) wherein: M is an atom of a transition metal; X, same or different, is a hydrogen atom, a halogen atom, or a R, OR, OSO₂CF₃, OCOR, SR, NR₂ or PR₂ group, wherein R is C₁-C₄₀ hydrocarbon group; L is a divalent bridging group; R¹, is a C₁-C₄₀ hydrocarbon group; R³ is a C₁-C₄₀ hydrocarbon group; R², R⁴, R⁵, R⁶, R⁷ and R⁸, equal to or different from each other, are hydrogen atoms or C₁-C₄₀ hydrocarbon groups.

WO 2005/063828 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.